

What is claimed is:

1. A method of providing multicasting service to a plurality of users in radio communication, the method comprising:

5        establishing three or more data transmission states for radio communication;

         employing two or more state transition conditions to change or maintain the data transmission state; and

         providing data of the multicasting service to the user with a particular  
10      data transmission state determined by the state transition conditions.

2. The method of claim 1, wherein two of the data transmission states relate to a dedicated channel.

15        3. The method of claim 2, wherein, of the two data transmission states, one data transmission state is based upon point-to-point data transmission, and the other data transmission state is based upon point-to-multipoint data transmission.

20        4. The method of claim 1, wherein one of the data transmission states pertains to a forward access channel.

5. The method of claim 1, wherein one data transmission state directly

transitions to another data transmission state in accordance with the transition conditions.

6. The method of claim 1, wherein the state transition conditions  
5 comprise, a total number of users, and parameters for radio communication resources.

7. A method for providing a multicasting service in a radio communication system, the method comprising:  
10 establishing a data-only shared data channel and a control-only shared control channel; and  
transmitting data of the multicasting service via the established shared data channel and the established shared control channel.

8. The method of claim 7, wherein the channels are physical layer  
15 channels.

9. The method of claim 7, wherein the shared data channel is a physical  
downlink shared channel for data (D-PDSCH).

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10. The method of claim 7, wherein the shared control channel is a  
physical downlink shared channel for control (C-PDSCH).

11. The method of claim 7, wherein the channels are uni-directional.

12. The method of claim 7, wherein the data-only shared data channel and the control-only shared control channel are separate channel.